

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P477533

Luminaire Tested: **IFLD-S-SA3B-830-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477533
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

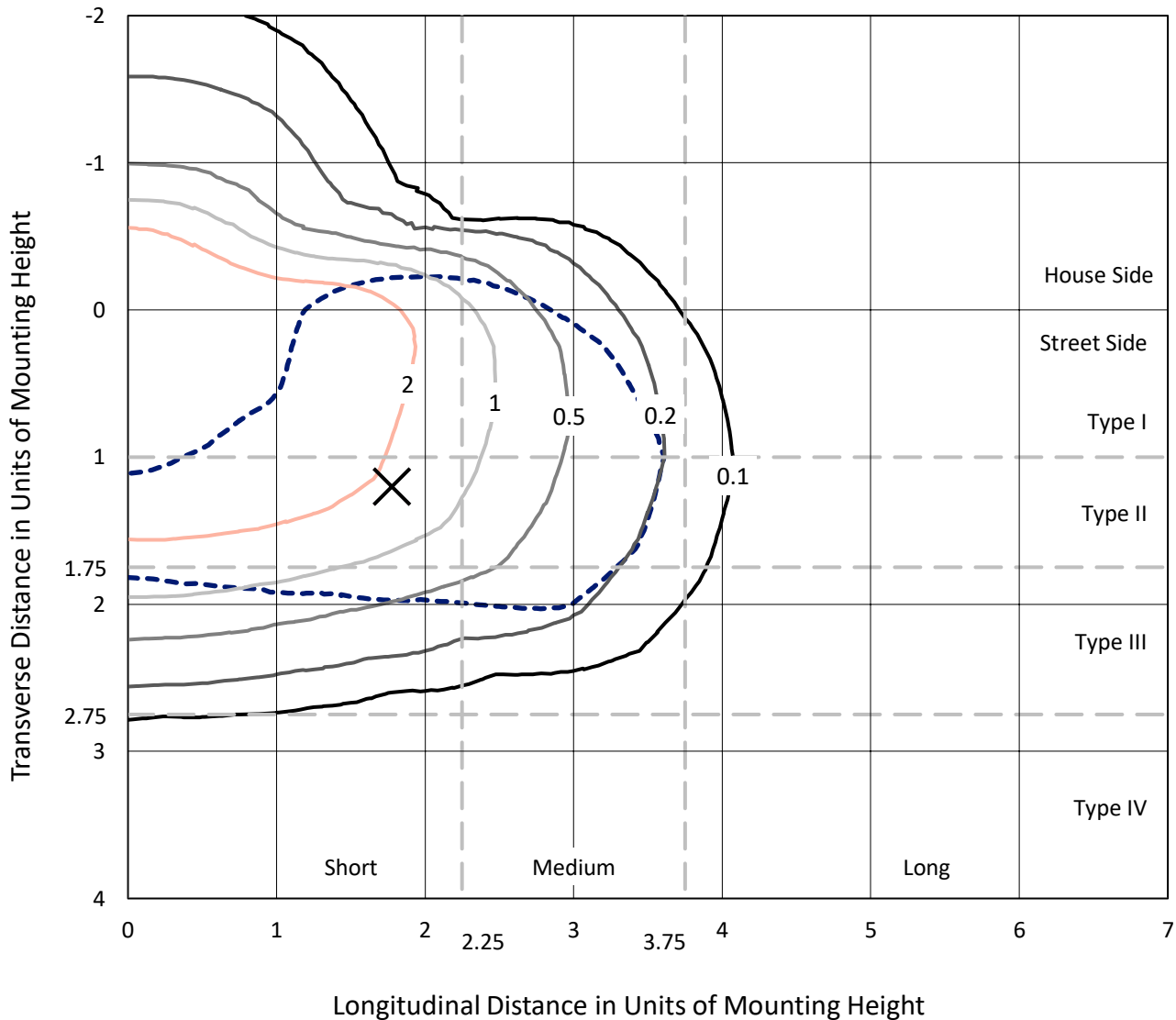
Lumens per Lamp: N/A
Luminaire Lumens: 13771.2 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

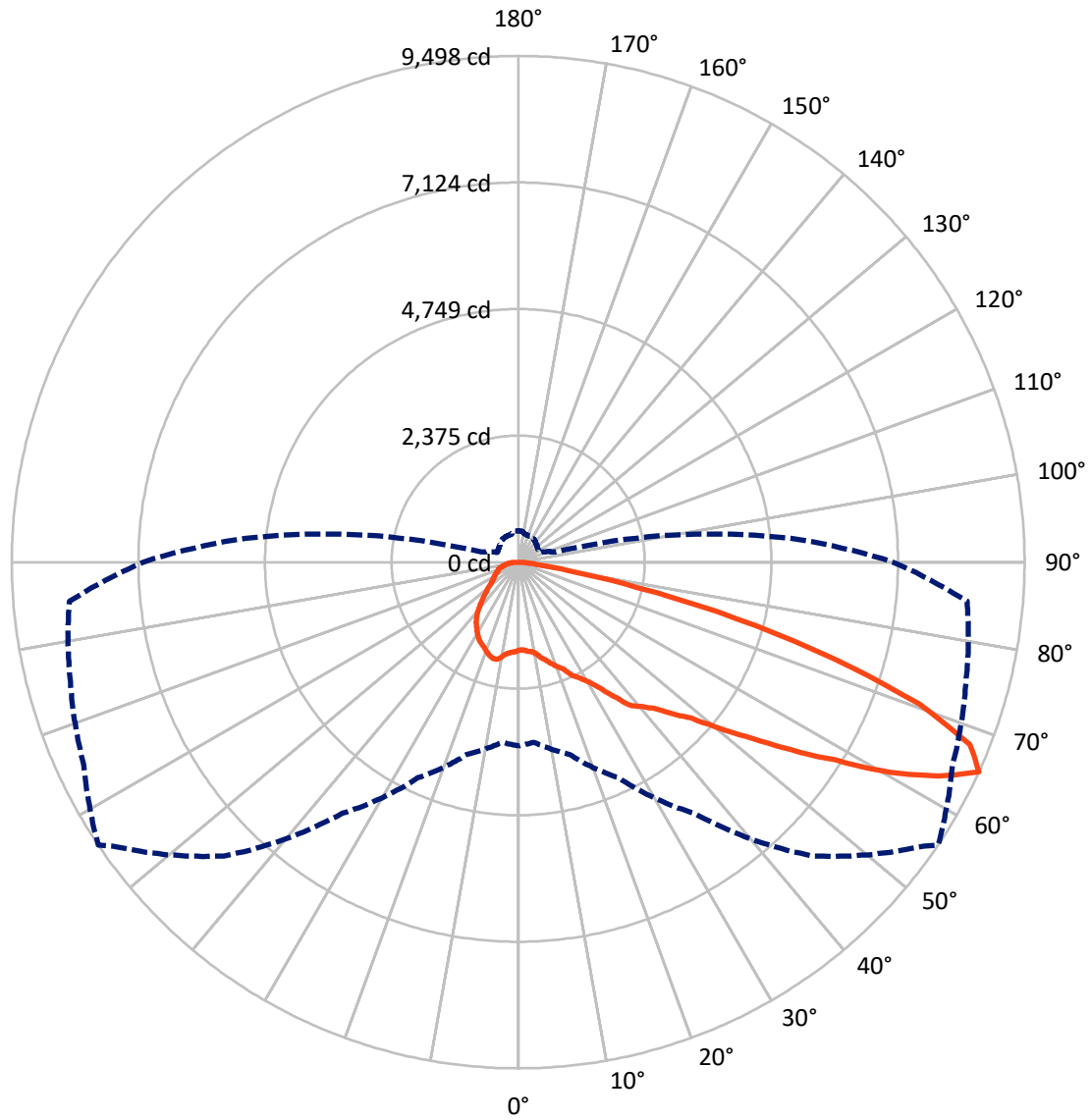
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3088.4	0.0	3088.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	10682.8	0.0	10682.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	13771.2	0.0	13771.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	1.2
10°-20°	531.9	3.9
20°-30°	947.1	6.9
30°-40°	1418.2	10.3
40°-50°	2101.2	15.3
50°-60°	3237.7	23.5
60°-70°	3665.4	26.6
70°-80°	1521.2	11.0
80°-90°	184.8	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13771.2	100.0
0°-180°	13771.2	100.0

Coefficient of Utilization

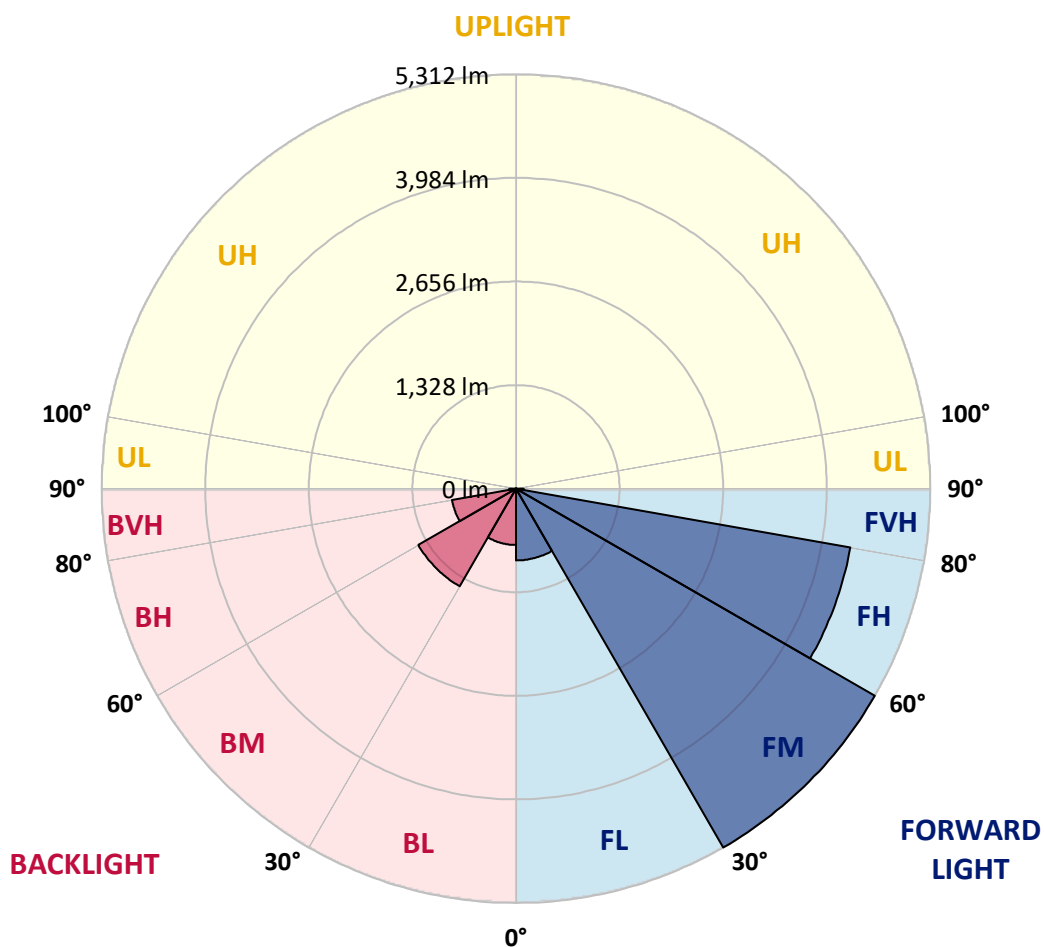


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	920.3	6.7			
FM (30°-60°)	5312.3	38.6			
FH (60°-80°)	4352.6	31.6			G2/5000
FVH (80°-90°)	97.5	0.7			G1/100
BL (0°-30°)	722.4	5.2	B2/1000		
BM (30°-60°)	1444.7	10.5	B2/2500		
BH (60°-80°)	834.0	6.1	B2/1000		G2/1000
BVH (80°-90°)	87.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9
2.5°	1609.7	1618.4	1612.6	1629.9	1644.3	1644.3	1655.8	1647.2	1658.7	1674.6
5°	1663.0	1628.4	1647.2	1655.8	1651.5	1658.7	1647.2	1676.0	1657.3	1687.5
7.5°	1676.0	1689.0	1704.8	1690.4	1703.4	1696.2	1697.6	1693.3	1683.2	1707.7
10°	1771.1	1752.4	1788.4	1766.8	1763.9	1761.0	1755.3	1733.6	1758.1	1759.6
12.5°	1880.6	1863.3	1861.9	1844.6	1867.7	1825.9	1834.5	1823.0	1827.3	1833.1
15°	1959.9	1952.7	1985.8	1965.7	1935.4	1916.7	1936.8	1905.1	1921.0	1918.1
17.5°	2117.0	2115.5	2091.0	2057.9	2040.6	2013.2	2008.9	1995.9	2007.4	2001.7
20°	2226.5	2242.3	2246.7	2207.8	2141.5	2111.2	2104.0	2093.9	2106.9	2102.6
22.5°	2393.7	2369.2	2387.9	2320.2	2295.7	2223.6	2197.7	2183.3	2245.2	2229.4
25°	2500.3	2526.2	2507.5	2484.5	2429.7	2340.3	2321.6	2353.3	2377.8	2360.5
27.5°	2741.0	2715.0	2697.7	2628.6	2592.5	2498.9	2477.2	2465.7	2471.5	2481.6
30°	2924.0	2938.4	2899.5	2850.5	2759.7	2664.6	2614.2	2604.1	2583.9	2566.6
32.5°	3184.8	3163.2	3140.2	3108.4	3030.6	2905.3	2856.3	2818.8	2758.3	2677.6
35°	3310.2	3372.2	3354.9	3269.9	3210.8	3163.2	3148.8	3091.2	3040.7	2913.9
37.5°	3519.2	3545.1	3520.6	3493.2	3465.8	3415.4	3398.1	3414.0	3314.5	3105.6
40°	3654.6	3709.4	3759.8	3683.4	3677.7	3687.8	3581.1	3562.4	3357.8	3248.2
42.5°	3931.3	3954.4	3964.5	3961.6	3994.7	3994.7	3791.5	3751.2	3605.6	3516.3
45°	4297.4	4316.1	4352.1	4378.1	4340.6	4359.3	4069.7	4053.8	3924.1	3906.8
47.5°	4614.4	4659.1	4739.8	4816.1	4865.1	4801.7	4484.7	4372.3	4339.1	4442.9
50°	4891.1	4837.8	5026.5	5104.4	5319.1	5424.3	4943.0	4898.3	4845.0	5043.8
52.5°	4918.5	4990.5	5257.1	5412.8	5855.2	6049.7	5505.0	5486.3	5421.4	5650.5
55°	5114.5	5105.8	5373.9	5711.1	6237.1	6564.2	6237.1	6225.5	6084.3	6301.9
57.5°	5081.3	5169.2	5381.1	5852.3	6581.5	7116.1	7085.9	7006.6	6809.2	6986.4
60°	4968.9	4992.0	5249.9	5848.0	6781.8	7682.5	8002.4	8018.3	7614.8	7756.0
62.5°	4331.9	4385.3	4712.4	5388.3	6639.1	8073.0	8897.3	8841.1	8518.3	8356.9
65°	3445.7	3392.3	3732.4	4463.1	5751.4	7796.3	9289.3	9498.3	8991.0	8695.6
67.5°	2112.6	2099.7	2426.8	3071.0	4303.1	6634.8	8976.6	9139.4	8859.9	8623.5
70°	1088.0	1054.9	1259.5	1713.5	2704.9	4868.0	7812.2	7972.2	8238.8	7734.4
72.5°	507.3	500.1	609.6	843.0	1377.7	2862.0	6049.7	6165.0	6727.0	6521.0
75°	298.3	302.6	364.6	441.0	671.6	1348.9	4014.9	4238.3	4847.9	4699.4
77.5°	223.4	223.4	259.4	307.0	392.0	521.7	1981.5	2276.9	2834.6	2549.3
80°	164.3	167.2	198.9	230.6	272.4	269.5	786.8	922.3	1299.9	1111.1
82.5°	128.3	132.6	154.2	171.5	191.7	162.8	322.8	347.3	534.6	425.1
85°	89.3	92.2	121.1	116.7	116.7	90.8	134.0	141.2	211.8	201.8
87.5°	21.6	24.5	59.1	64.8	49.0	27.4	41.8	47.6	76.4	87.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1652.9	0°	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9
1681.8	2.5°	1660.1	1665.9	1690.4	1677.4	1684.6	1654.4	1678.9	1658.7	1676.0	1667.3
1694.7	5°	1706.3	1693.3	1707.7	1697.6	1697.6	1709.1	1726.4	1713.5	1739.4	1727.9
1704.8	7.5°	1725.0	1726.4	1735.1	1736.5	1729.3	1765.3	1766.8	1762.5	1787.0	1781.2
1774.0	10°	1771.1	1772.6	1788.4	1797.0	1789.8	1802.8	1788.4	1776.9	1775.4	1769.7
1828.8	12.5°	1844.6	1859.0	1856.1	1863.3	1864.8	1810.0	1776.9	1720.7	1713.5	1720.7
1909.5	15°	1912.3	1906.6	1909.5	1923.9	1863.3	1775.4	1716.3	1668.8	1671.7	1673.1
2014.7	17.5°	1993.0	1997.4	2001.7	1935.4	1824.4	1720.7	1668.8	1668.8	1654.4	1660.1
2088.2	20°	2085.3	2068.0	2030.5	1936.8	1756.7	1657.3	1641.4	1641.4	1624.1	1612.6
2167.4	22.5°	2157.3	2122.7	2066.5	1892.2	1696.2	1632.8	1593.9	1566.5	1546.3	1523.2
2255.3	25°	2203.4	2184.7	2075.2	1846.0	1651.5	1567.9	1510.3	1468.5	1442.5	1412.3
2324.5	27.5°	2274.1	2238.0	2099.7	1792.7	1602.5	1503.1	1413.7	1348.9	1299.9	1268.2
2429.7	30°	2369.2	2317.3	2082.4	1716.3	1527.6	1390.7	1285.5	1201.9	1145.7	1119.7
2529.1	32.5°	2447.0	2379.3	2068.0	1647.2	1444.0	1276.8	1137.0	1052.0	1020.3	987.2
2696.3	35°	2595.4	2461.4	2057.9	1608.3	1369.0	1163.0	1016.0	942.5	902.1	853.1
2795.7	37.5°	2709.3	2604.1	2033.4	1527.6	1272.5	1052.0	923.7	857.5	796.9	745.0
3026.3	40°	2888.0	2802.9	2034.8	1413.7	1158.6	956.9	851.7	782.5	706.1	661.5
3367.8	42.5°	3223.7	2998.9	2043.5	1322.9	1030.4	879.1	786.8	704.7	628.3	590.9
3756.9	45°	3635.9	3268.4	1990.2	1240.8	899.2	805.6	709.0	626.9	577.9	550.5
4285.8	47.5°	4110.0	3532.1	1918.1	1086.6	789.7	727.8	637.0	589.4	553.4	537.5
4967.5	50°	4640.3	3909.7	1897.9	945.4	704.7	661.5	602.4	566.4	541.9	523.1
5735.6	52.5°	5323.4	4349.2	1857.6	799.8	631.2	608.1	589.4	564.9	543.3	527.4
6451.8	55°	5976.2	4836.3	1814.3	680.2	579.3	582.2	592.3	570.7	551.9	527.4
7254.5	57.5°	6711.2	5333.5	1654.4	592.3	540.4	569.2	589.4	564.9	546.2	527.4
8075.9	60°	7165.1	5613.1	1341.7	515.9	505.8	544.7	572.1	546.2	526.0	533.2
8453.5	62.5°	7349.6	5466.1	1011.7	468.4	481.3	511.6	544.7	534.6	520.2	547.6
8449.2	65°	7035.4	5127.4	723.4	428.0	448.2	478.4	520.2	531.8	536.1	589.4
7760.3	67.5°	6260.1	4464.5	531.8	394.9	413.6	458.3	537.5	556.3	553.4	619.7
6512.3	70°	5009.3	3491.8	415.0	367.5	400.6	474.1	562.0	562.0	541.9	619.7
4967.5	72.5°	3644.5	2461.4	357.4	335.8	367.5	435.2	559.1	557.7	531.8	566.4
3163.2	75°	2206.3	1432.5	315.6	304.1	315.6	373.2	534.6	526.0	490.0	487.1
1521.8	77.5°	1099.6	720.5	258.0	269.5	275.2	312.7	469.8	482.8	433.8	422.2
600.9	80°	464.0	314.2	214.7	232.0	232.0	263.7	390.5	399.2	360.3	338.7
237.8	82.5°	211.8	180.1	183.0	201.8	188.8	204.6	309.8	319.9	292.5	256.5
100.9	85°	89.3	102.3	139.8	158.5	139.8	132.6	213.3	224.8	190.2	158.5
43.2	87.5°	40.4	56.2	87.9	115.3	70.6	62.0	113.8	118.2	95.1	70.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<u>180°</u>
1652.9
1651.5
1712.0
1772.6
1769.7
1723.6
1693.3
1661.6
1595.3
1510.3
1418.0
1282.6
1134.1
985.7
848.8
746.5
665.8
593.7
556.3
534.6
526.0
526.0
526.0
526.0
527.4
540.4
589.4
624.0
606.7
546.2
481.3
415.0
331.5
250.8
160.0
66.3
0.0

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